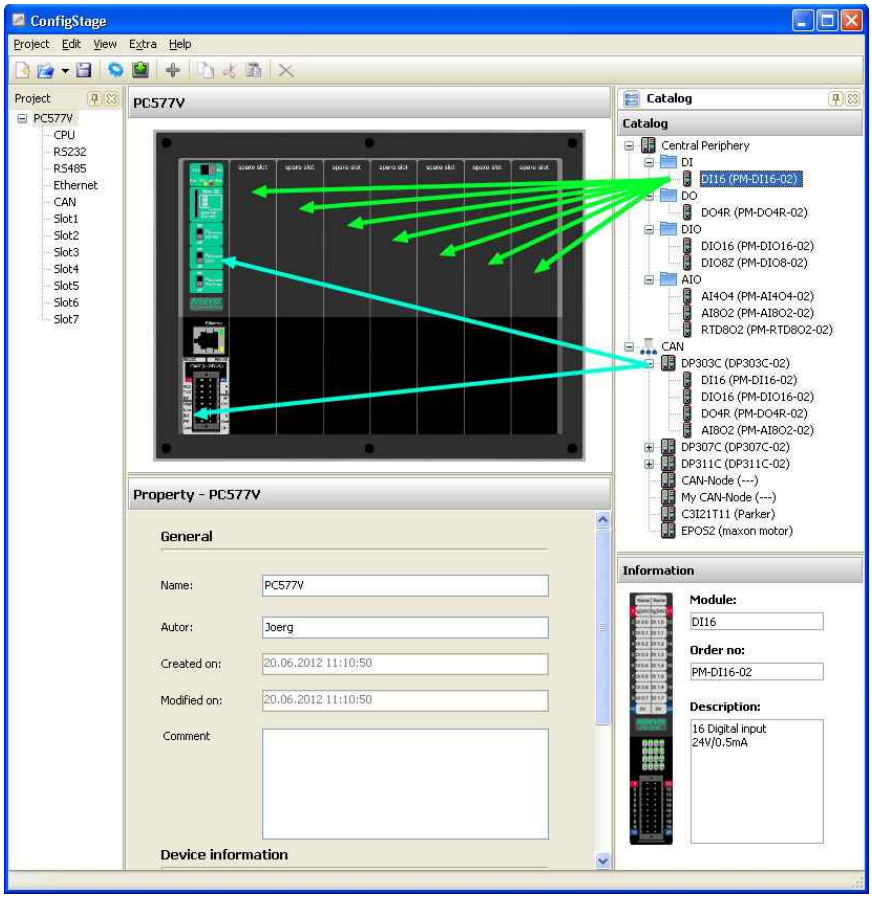
Product information

Configuration software

ConfigStage



(valid from 02/2014)

Changes to older versions of this document

Changed in Rev. 1: complete new document from CS 1.0.14.10
Changed in Rev. 2: new design line implemented

General features of ConfigStage — Freeware

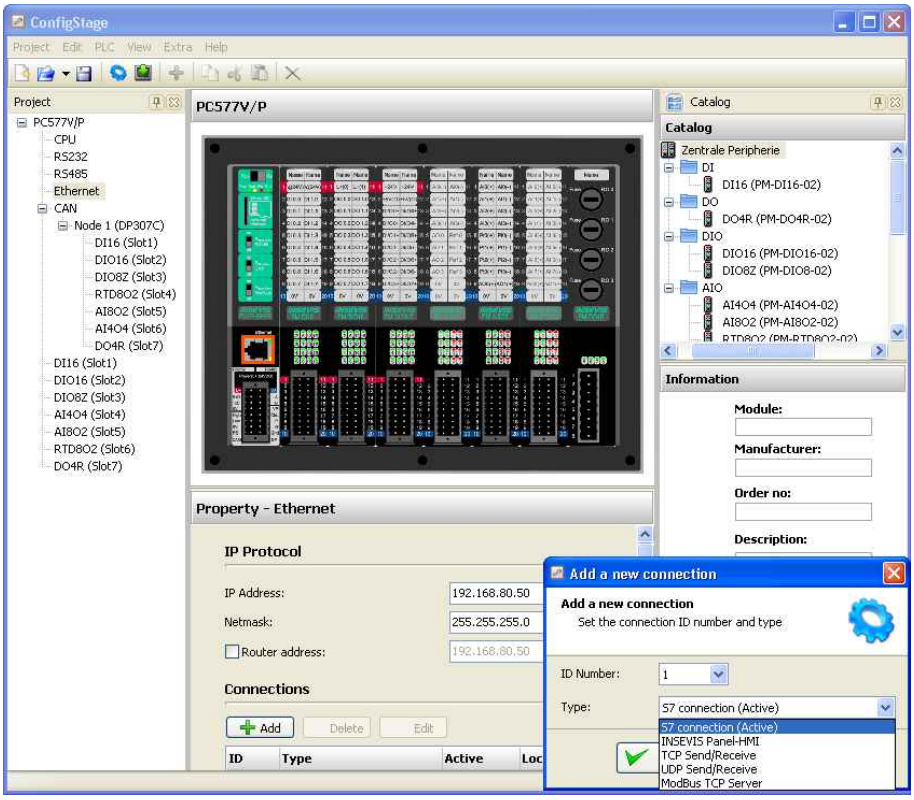
With the free configuration tool „ConfigStage“ you can config the **additional functions** of the INSEVIS-CPUs and download it into the PLC. The onboard- or decentral INSEVIS-periphery will be added easily by drag´n drop to the periphery slots. Parameters and address areas will be assigned in a box right below.
Also you may assign **S7-CPU-parameters** like in your programming tools from Siemens (like startup, diagnostic, cycle and clock, retententive memory, etc.).

With the „ConfigStage“-software can be assigned these interfaces :

- RS232 with free ASCII,
- RS485 with free ASCII and Modbus RTU,
- Ethernet-connections (active S7-connection-RFC1006, TCP, UDP, Modbus-TCP, INSEVIS-Panel-HMI),
- CAN (CANopen® by pre-defined parameters or by imported and mapped EDS-files),

and these parameters

- the S7-control parameter of the CPU (cycle time exceed, retentivity, communication settings, etc.) and
- INSEVIS- specific settings (configuration and parame-trization of central and decentral in- and outputs) and
- of external peripheries and intelligent drives via Modbus RTU/TCP, CAN or other interfaces by prefilled parameter blocks.



With the „ConfigStage“ all external peripheries and intelligent drives compatible to CAN or Modbus RTU /TCP can be included into the S7-environment in an easy way without any knowledge about these communication technologies.

It is very easy to create your own CAN-slave, to save it as macro and to use it as prefilled component again and again. Diverse S7-samples for external peripheries and motion-control functions are available for free download at INSEVIS´ websites.

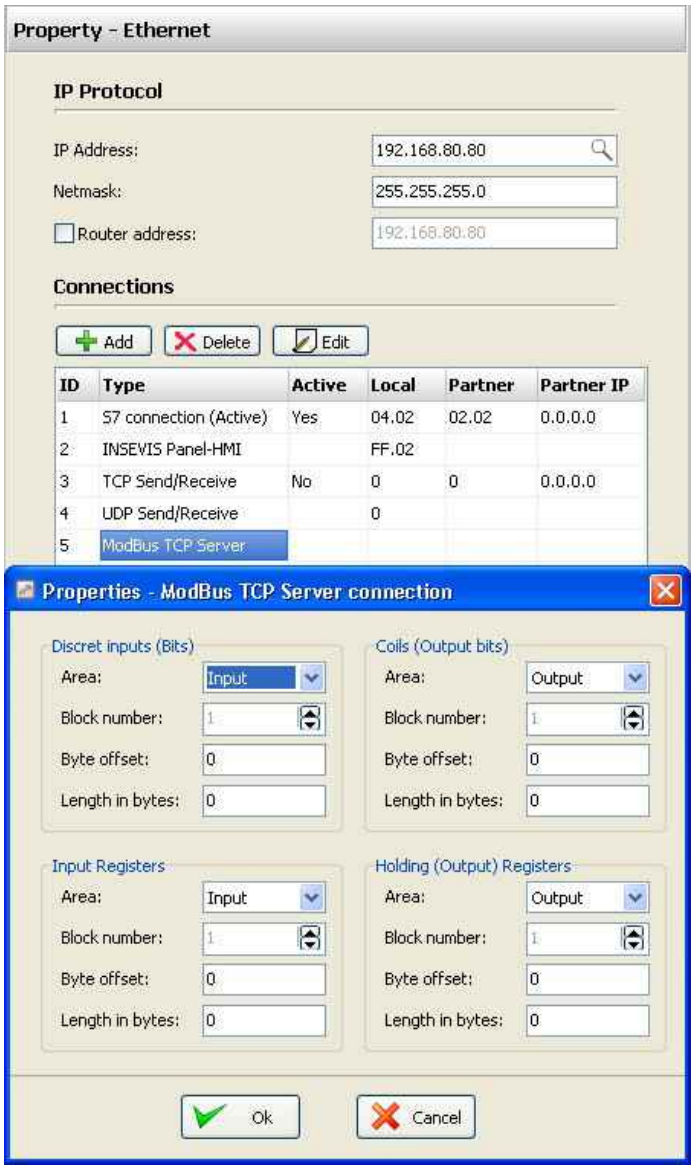
Configuration of CPU, Ethernet, Modbus and serial CPU Freeware

The **CPU settings** in ConfigStage refer to the CPU-assignments in the SimaticManager. You can set up these functions:

- Startup behavior,
- Diagnostic report,
- Know-how-protection (Password)
- Communication (channels),
- Cycle monitoring time,
- Clock,
- Retententove memory,
- Time-Of-Day interrupt,
- Cyclic interrupt,

To set up the **Ethernet-interface** for communication, select here connections and protocol (connection type) and parameterize it.

Every connection gets a connection-ID to assign it to the S7-program. Referring to the connection type the selected connection will be parameterized in separate boxes with these parameters:



parameters at S7-connection (Active)

- Local TSAP,
- Partner-TSAP,
- Partner-IP-address

parameters at INSEVIS-Panel-HMI

- Local TSAP

parameters at TCP Send/Receive

- Local port,
- Partner-port,
- Partner-IP-address

parameters at UDP Send/Receive

- Local port

parameters at Modbus-TCP (Server)
Assign of S7-operand areas for Modbus-

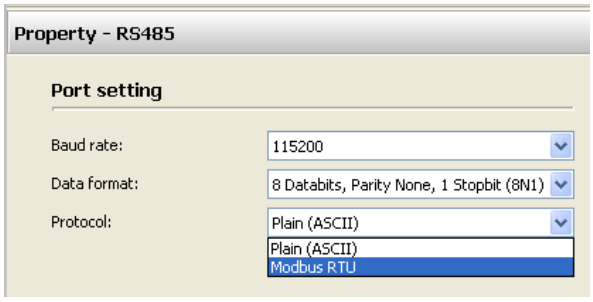
- Input bits
- Input words
- Output bits
- Output words

(See the screenshot, where a Modbus TCP server is parameterized in the connection settings.)

The assign of **RS232 and RS485** is self-explanatory.

If you select at the RS485 the protocol „Modbus-RTU“, you will be asked to assign the node-ID as well as to map your S7-operands to input-bits and -words and to output-bits and -words.

If „Modbus Server is deactivated, Modbus RTU-telegrams will be received and sent by SFB60/61



CAN configuration for INSEVIS and external slaves

There is **no need to have any CAN-knowledge** to include decentral INSEVIS- periphery to the INSEVIS-S7-CPUs.

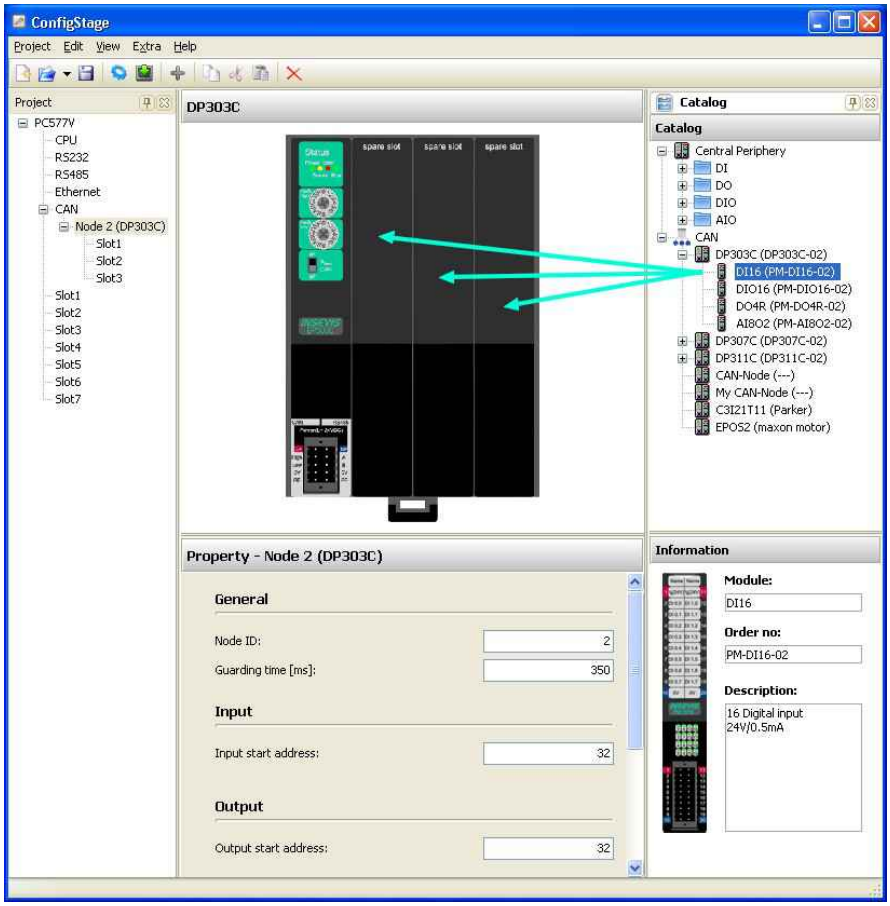
After have placed your INSEVIS head station on the CPU, this module appears in the project tree and in the display.

Now you can insert general start addresses for the head station for in-/outputs (no more possible at the single modules).

The periphery modules will be added per drag´n drop from a special sub area of the catalog tree below the CAN-title.

You type in the node-ID-number you have set up before at the INSEVIS- head stations hardware with the hexadecimal turn-switches.

Also you can change the pre-assigned guarding time if you want. Than all decentral I/Os will be used in S7 like onboard I/Os of an INSEVIS-PLC.



Configure decentral external periphery by EDS-file

You need only to import the EDS-file of the external CAN-slave you want to configure.

By „Show CAN objects“ an object browser opens up with all CAN-objects available.

These were filtered from the EDS-file automatically.

Move single or multiple CAN-objects by Drag ´n Drop into your configuration and map it to the S7.